

# TOIKE OIKE



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SCHOOL OF SCIENCE, SCHOOL OF SCIENCE, HURRAY, HURRAY, HURRAY

Vol. XLV

FRIDAY, NOVEMBER 28, 1952

No. 5

## PROGRAM

DEC. 1-5 TIME: 1-2 p.m. 1035 WALLBERG BLDG.

MONDAY:—MECHANICAL — ENG. BUS. — "Steam Turbines"

TUESDAY:—MINING — ENG. PHYSICS — AERO-NAUTICAL — "Jet Propulsion"

WEDNESDAY:—CHEMICAL — "Men, Metal and Machines"

THURSDAY:—CIVIL — "Project Power"

FRIDAY:—ELECTRICAL — "Fluorescent Lighting"

## ENGINEERING

### INSTITUTE

The institute was founded at a time when engineering in Canada was restricted almost entirely to construction work, and when all engineering other than military was known as "civil". At that time, the organization was named The Canadian Society of Civil Engineers. Its founders were the giants of their day, and the history of the times was influenced greatly by their projects and their prowess. Now, as then, the leaders of the profession are still prominent in the affairs of the Institute.

The Institute membership and activities embrace with equal emphasis all branches of engineering: civil, electrical, mechanical, mining, chemical, and so on. In a country with so small a population as Canada, it is believed that best organizational results can be obtained by co-operation rather than by segregation, although it is admitted readily that organizations specializing in a single type of engineering have a definite place in the pattern.

The Institute has 41 branches from coast to coast. Each branch functions individually with a large degree of autonomy which permits it to adapt itself to local conditions without sacrificing the unity required of a national body. The decentralized organization of the Institute is one of its outstanding features. Each branch has its own officers and committees, and arranges its own program, but all branches combine to contribute to matters which are of national importance. Several branches have junior or student sections for the benefit of younger members. Such sections are administered entirely by their own officers and afford young engineers unusual opportunities for self development.

At this writing the membership is about 15,000. The present membership is just over double what it was at the end of 1945.

For the trivial sum of three dollars the institute offers its members the use of their employment centre. Members will have invaluable opportunities to attend regional and branch meetings as well as the Annual General Meeting and all meetings of the A.S.M.E. This allows members to keep up with their practice and find valuable contacts even when practicing in the United States. In addition all members will auto-

### ASSOCIATION

Engineering is considered a profession in all provinces of Canada and the Professional Engineers Act of each province has, as its purpose, the regulation of the profession in order to protect the public, and the provision of means for increasing the skill of professional engineers, for advancing their status and well-being and for maintaining a high standard of ethics among them.

The Ontario Association, in administering the Act, has broad powers of licensing and disciplining its members and of taking action against persons contravening the Act.

The Association publishes a bi-monthly paper, *The Professional Engineer*, recommended salary schedules and a year book, carries on an active Public Relations campaign, makes special studies of many types for members, provides Group insurance for members, and is in many other ways endeavouring to advance their status and well-being.

The Association provides 18 scholarships at Toronto and Queens to a total of \$1,250.

The Council of the Association is elected by the membership yearly and reports to it at the annual meeting which, in 1953 will be in January. Students are welcome at this meeting.

Undergraduate students are asked to join the Association and renew their membership each year by filling out the proper form and paying one dollar. This fee is deducted from membership fees after graduation. An undergraduate student member receives The Professional Engineer, a membership card and is eligible for Group insurance and other benefits.

### MEMBERSHIPS AND RENEWALS ACCEPTED NOW FOR 1953 AT:

Engineering Society Office,  
Library, Mechanical Building,  
Hydraulics Laboratory.  
For information, see D. G. Huber,  
Mechanical Building.

matically have a subscription to the Engineering Journal which combines technical articles on Canadian engineering achievements and news of interest and value to the members of the profession. Memberships will be accepted in the stores at any time.

## Professional Associations Converge on School

The Engineering Society is presenting a Professional Institute Week from Dec. 1 to Dec. 5 which is designed to acquaint the engineering student with the various organizations that pertain directly to his particular course. In past years the institutes have conducted their appeals at different times throughout the year, presenting a rather confusing picture to the students. As a result with close co-operation of all the technical and professional institutes, a program each noon hour has been arranged through the club chairmen in an effort to make the undergraduate more conscious of his profession. The purpose of the week is not to high pressure the students into joining an institute of his choice but to enlighten him as to the purpose and the usefulness of these organizations — in other words, we want to show you something about your profession, with the idea that you will realize the importance of membership in a suitable institute.

The eight engineering clubs were divided into five groups, one of which will be featured each day next week in Room 1035 in the Wallberg Building from 1-2 p.m. A movie of current interest pertaining to that course will be shown, to be followed by speakers who will inform us about the institutes that are applicable to the course or courses featured. All engineering students, regardless of their course, are invited to attend these informative meetings that may interest him — if lunches are brought, please do not leave any scrap paper in the room as we will lose our privilege. A daily schedule of course groupings and movies to be shown can be found elsewhere in the paper.

For the information of the students, the club chairmen submitted a list of the technical societies that a budding engineer may have interest in. The greatest majority of them are specialized institutes, but there are two major organizations that the entire engineering field — a technical body, the Engineering Institute of Canada, and the professional body, the Association of Professional Engineers (of Ontario). Mr. Harvey Self of the E.I.C. and Mr. Grant Huber of the A.P.E.O. will be present on Thursday during the Civil hour to personally discuss these two organizations. The following is a list of the more important institutes that an undergraduate in each club may join, keeping in mind that the E.I.C. and the A.P.E.O. are applicable to all courses. Where only the name of the organization appears, in most cases a description can be found elsewhere in the paper.

### CIVIL CLUB

As far as an undergraduate in civil engineering is concerned the Engineering Institute of Canada is really the only one which concerns him. However, the following

institutes may be mentioned:

Institution of Civil Engineers of England;  
American Society of Civil Engineers;  
Institute of Aeronautical Sciences.

After graduation if a candidate has been engaged in other branches of Engineering he very often joins the society representing these departments.

### MINING AND MET.

The Canadian Institute of Mining and Metallurgy was founded to promote the economic production of valuable minerals and metals, by means of meetings for the reading and discussion of technical papers, and the subsequent distribution of such information through publications. These publications consist of the Annual Transactions, available to students in the Mining Library and the monthly Canadian Mining and Metallurgical Bulletin sent to all members.

Premiums or prizes or both premiums and prizes may be awarded for papers written by students and submitted to the Institute during the year.

The Mining and Metallurgy Club is an affiliated student society of the C.I.M.M.

### MECHANICAL

As a Student member A.S.M.E. offers you the opportunity to keep abreast of current technical developments through Mechanical Engineering, the society's monthly journal, long before the developments become a part of the course content of your college studies. The publication is available from your annual dues from October to May and contains much information of value to students.

The purpose of A.S.M.E. is promoting the art and science of Mechanical Engineering; encour-

aging original research; fostering engineering education; advancing the standards of engineering; sharing experience among engineers and technologists; broadening the usefulness of the engineering profession.

The A.S.M.E. will also help a student to develop technical competence as an engineer; to learn to talk the Engineering language logically; to develop a sufficiently broad interest in fields allied with Mechanical Engineering so that you can effectively co-operate in projects involving co-ordination in other Engineering fields; to develop an appreciation of the position of an engineer in society and our economic system.

As a student member you have the privilege of attending section meetings, divisions conferences, national meetings, and student conferences in your own area. They all provide valuable social and professional contacts.

### ENG. PHYS.

The associations to which students in Engineering Physics can belong are primarily dependant on the option the student chooses in his third year.

### THERMODYNAMICS

American Society of Mechanical Engineers  
American Society of Heating and Ventilating Engineers  
American Society of Refrigeration Engineers  
Institute of Mechanical Engineers  
Royal Aeronautical Society

### ELECTRICAL

American Institute of Electrical Engineers  
Institute of Radio Engineers

### GEOPHYSICS

### METALLURGY

American Society of Metallurgists  
Canadian Institute of Mining and Metallurgy  
American Institute of Mining and Metallurgical Engineers

## HOCKEY REPORTS

This year, S.P.S. has entered seven teams in the intra-mural competition for the Jennings Trophy.

The Senior and Junior S.P.S. teams are chosen from the best players in (IV and III) and (II and I) years respectively. Jack Raftis is the coach of the Seniors while Bill Moore guides the Junior Squad. They are adequately helped by Hugh MacKenzie and Tom Byrnes as managers.

The S.P.S. III team is coached by George Hayman and is composed of players in fourth year. Paul Greenan is the manager. Dave Brown and John Bentham are preparing the S.P.S. IV team for competition, utilizing players from third year.

The S.P.S. V and VI teams are respectively coached and managed by Bob Cruise and Al Harrison and T. Eboranta and K. Martin. The S.P.S. VII team is presently without direction and help in the way of a coach is needed.

On Friday, November 21st, the intra-mural Hockey Competition

got under way with St. Mike's "A" playing Senior Skule. The score ended with a 3-3 tie.

The S.P.S. front line of Yeo, Mollenhauer and Harcroft accounted for the three goals, each player notching one. G. Jamieson played a sparkling game as a forward and defenceman.

Other players on the squad include Worth, Cooper, Moore, Greenan, Martin, Smith, Eboranta, MacHolm, Hayman and Raftis. Although the game ended in a tie, S.P.S. outshot their adversaries 30-6, and look to be the pick of Group I. Time will tell.

The Junior S.P.S. team schedule began with a game against Junior U.C. on Monday, November 24th. Bill Moore is confident this squad will be top in Group II.

Any players not already assigned to teams are asked to contact the above mentioned coaches and managers. More players are needed. The easiest way to gain P.T. credits for the second term is by playing hockey.



# TOIKE OIKE

devoted to the interests of the Undergraduates of the Faculty of Applied Science  
Published every now and then by the Engineering Society of the University of Toronto  
Opinions expressed are not necessarily those of the Engineering Society or its officers.

## EDITORS OF TOIKE OIKE

EDITOR ..... Doug Christie 5 T 4 Chem.  
SPORTS EDITOR ..... Tom McCann 5 T 4 Chem.  
ASS'T SPORTS EDITOR ..... George Kolosta 5 T 4 Chem.

## CONTRIBUTORS AND ACCOMPICES

Wally Angus, Paul Wyszowski, Warren Grover, Vic Prendergast, the club chairmen.

Friday, November 28, 1952

## The Professional Week

This issue announces the beginning of a new idea in professional relations around SPS. Although the year already contains at least fifty-four special weeks from National Cat Week to Be Kind to Indigent Armenian Parsnip-Eaters Week, we now present you with the latest — the Professional Associations Week.

As you can see by the articles on Page One, there are a large number of professional societies catering to one group or another in the profession, as well as the Engineering Institute and the Professional Association. Ordinarily each of these organizations conducts its own membership drive sometime during the year, usually in December or January. As a result, Joe Skule finds himself bombarded on all sides by representatives of these societies.

The Professional Associations Week has been arranged by the Engineering Society in an attempt to reduce the confusion to a state of orderly chaos. All the various organizations have been asked to conduct their membership campaigns next week, while a specially arranged series of five noon-hour meetings gives each a chance to present its case. The table on the first page shows which clubs and which associations are represented on the different days. We urge you to attend not only those directly affecting your own course but as many others as you may be interested in, and we expect you will be at several before the week is out.

With the new set-up, those who are interested in joining a professional society will know where and when to go to find out about it. If you are bored by the whole business you know where not to go, and if you are not sure whether you are interested, then you can go and discover the answer to that too.

## CHEMICAL

### Canadian

The Chemical Institute of Canada with head office at 18 Rideau Street, Ottawa, is the sole organization in Canada which attempts to coordinate the activities of the various chemical fields into unified progress. Since its inauguration in 1920, it has been very successful in this endeavour and is rated very highly in the various circles where it exerts influence.

At a typical sectional meeting of the C.I.C. agricultural chemists, food chemists, chemical engineers, organic chemists, biochemists and analysts rub shoulders and exchange news and ideas. Therefore, it is important to note that although chemical engineers constitute a large portion of the C.I.C. membership, they are by no means in the majority.

The C.I.C. has active local sections operating in every area in Canada where there is a concentration of chemical and allied industries. These local sections number 29. There are also 18 student chapters, three of which operate on this campus, viz., University of Toronto Food Chemistry Club, University of Toronto Chemistry Club (Arts), and the Industrial Chemical Club (Engineering).

The numerous services of the C.I.C. include technical meetings where members are exposed to the latest developments in chemical processes and operations, instrumentation, markets, protective coatings, analytical apparatus and procedure, products, and a host of other items pertinent to chemistry in Canada. The Institute operates a very effective employment service which is used freely by employer and employee to

mutual advantage. Surveys tend to aid in the standardization and raising of salaries. The Institute distributes to all its members and independent subscribers the monthly publication "Chemistry in Canada."

The Canadian Chemical Conference and Exhibition is held annually in one of the larger industrial centres, usually during the first week of June. During the three-day conference held last June in Montreal's Sheraton-Mount Royal Hotel, 110 technical papers were delivered by technologists and engineers from all parts of Canada and 34 major Canadian industries displayed the last war in chemicals and chemical equipment.

A membership in the Chemical Institute of Canada is a prime requisite for all professional chemists and chemical engineers practicing in Canada.

### American and British

South of the border there are several such professional associations of a less general nature. The two major associations are the American Chemical Society and the American Institute of Chemical Engineers.

The Chemical Society (London) and the Society of Chemical Industry are active professional associations in the British Isles. Publications include the Journal of the Chemical Society, Transactions of the S.C.I., and Reports on the Progress of Applied Chemistry.

## ELECTRICAL

On this continent there are two active professional groups in the electrical field. They are the American Institute of Electrical Engineers and the Institute of Radio Engineers. There are student branches of both organizations on this campus. The prime purpose of these student organizations is to give the student an early identification with the professional group

## CLUB NEWS MINING & MET.

Nearly all of the Miners and Mining Geologists turned out for a most informative field trip on November 1st to the H.E.P.C.'s Sir Adam Beck power project at Niagara. A vote of thanks is due to Wally Angus for his capable handling of the arrangements. Messrs. Hogg and Young of the Hydro staff gave an eye-opening outline of the huge development. The students left with their heads swimming with cost figures and their stomachs filled with the best grub to be found anywhere.

On Nov. 7th the Metallurgists plus the third and fourth year Miners took in a tour of the Stelco plant at Hamilton. A visit to the Metallurgy Division preceded a run through the plant, providing a look-see at the open-hearth furnaces and the mighty rolling mills. Professor Ross was on hand to answer questions on the various phases of steel-making. The hospitable Stelco staff members played leading roles in a discussion period at the close of the trip.

December 10th marks the date for the annual M & M Club dinner meeting. Three outstanding speakers from the fields of Geology, Mining, and Metallurgy will address the group. Students are asked to meet in the East Common Room, Hart House at 6:00 p.m.

A busy fall term will conclude with a bang on Dec. 12th, with the M & M Dance to be held at the Club Kingsway. Watch the notice board for further developments.

Let's have an all out attendance at both affairs.

## CHEMICAL

Again we have to announce a change of time for the fall dinner meeting. Due to the fact that Monday, December 1st is election day in Toronto there could be no refreshments served that day. In order to keep peace and harmony in the department, therefore, the new date is Tuesday, December 2nd. If your class rep hasn't seen you yet concerning this change, see him at once and get the date changed on your ticket. If you happen to be one of the unfortunate few who haven't their tickets as yet there may be a slight chance that your rep has one or two left. But at last reports any extra tickets were few and far between.

The following day, the 3rd, is Chemical Institute of Canada day in the activities of "Professional Week". At one o'clock there will be a motion picture, "Men, Metal, Machines" in W1035. In addition there will be a speaker from the C.I.C. to give a short address and answer any questions on his organization.

## ENG. BUS.

### Statistics on Christmas Dance

Date: Thursday, Dec. 18.  
Place: Hungarian Hall.  
Cost: \$1 per couple.  
Refreshments: 5 and 10c per.  
Entertainment: "Lushwell Louie" and others.

which represents his chosen profession. They provide for practice in presentation and discussion of technical papers, and give students practice in the handling of meetings and in the administration of a technical society.

The A.I.E.E. is primarily interested in the field of power engineering and electronics with respect to power fields. The I.R.E. is concerned only with the communications field. Both organizations hold monthly meetings and annual conventions and publish valuable technical literature which keep the engineer up to date on the latest developments in the pertinent fields.

# SPORTOIKE

## LACROSSE IIIrds WIN AGAIN!

Once again third Chemicals came through in lacrosse! For the second year running they have won their group. Prior to the beginning of last year only one member had ever played the game of the Indians — officially, Canada's national sport.

Behind the spectacular net-minding of Don Milne, the lacrosse thirds finished strongly with two successive shutouts to take their group title. Sporting a record of five wins and one defeat in the regular schedule, the team joins the firsts in the playoffs.

The Kem-Kids displayed a well-balanced attack and solid defence to overpower St. Mike's B 6-0. Rich Clarke led the Skulemen with two goals, while Shimizu, Kolosta, Broger, and Hueston all fired singletons.

The final contest proved to be the big game of the season. The opposition was Med V who had incurred the only setback against the team, a close 7-5 verdict at the beginning of the schedule. This crucial game was a replay of a previous tilt which Skule had won 3-2. However, the desperate Medsman protested on some minor ruling and won the right to play again. Somewhat miffed at such goings on, the Skulemen were anxious to get another crack at the docs. They roared into action from the opening whistle and shellacked the bewildered surgeons by a count of 5-0. Milne handled capably what little Meds had to offer, thanks to the rugged checking of his mates, who still managed to barrage a rain of shots at the opponent's goal. Ted Shimizu finally netted his first hat trick while Clarke maintained his scoring pace with a single counter. Barry Jackson rounded out the scoring on a fine end to end rush.

And now on to the playoffs.

## BASKETBALL

This week basketball practices started. Until the Junior and Senior Skule teams are chosen, the first and second years will all practice together, as will the third and fourth. When the cuts have been made, the other teams will gradually form and get their own practice the upper two years and the fourths and sixths from the time. The thirds and fifths will be composed of those in first and second years. The sevenths will be the residue. Don't underestimate these teams with the large numbers, however; last year the sixth had one of the best teams in interfaculty competition. Those who wish to go out for senior Skule should see manager Bud Branson and Junior Skule, Bill Kirkpatrick.

Also in the basketball wars for Skule are the 27 minor league teams. This number is 12 more than other faculty or college. Also the entry points in the Reed Trophy race for the entry of the minor league teams is about twice as many as for the major league teams. Let's keep this up!

## FOOTBALL

The football season has ended; need we say more? — By the end of the year there wouldn't be room in the Skule trophy case for the Milock Cup anyway.

★ Limited Sale — 200 Tickets Only ★

## CLUB TOP HAT

## ENGINEERS' BALL

Dancing 9-1

Entertainment

\$1.50 Per Couple

Frank Bogart

Quartet Contest

★

## AERO

Any student or graduate from a recognized school of Engineering or Science is eligible to join the Institute of Aeronautical Sciences. The aims of this organization are to promote public recognition of aeronautical engineering and to distribute news and technical information of an aeronautical nature to members.

To achieve this, district and student branches have been founded, and two publications are available by subscription to members—the Aeronautical Engineering Review and the Journal of the Aeronautical Sciences. The Institute also operates the Paul Hollman technical mailing library, the services of which are available free of charge to members. The Toronto student branch of the Institute has been merged with the Aeronautical Club. For further information, see Aero Club chairman Ron McKee — student branches have been H.Y. 7652.

## GENERAL MEETING No. 2

### ENGINEERING SOCIETY

Professor Hewer of the Mining Engineering Department will speak on his recent trip to the Far East.

**Mon., Dec. 8, 1:00 p.m. P-135**

Lectures Cancelled 12—2